



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 03 25 5499

AP

## DOCUMENTS CONSIDERED TO BE RELEVANT

| Category   | Citation of document with indication, where appropriate, of relevant passages   | Relevant to claim  | CLASSIFICATION OF THE APPLICATION (Int.Cl.7)             |
|--|---|--|--|
| X  | EP 1 013 902 A (TOYOTA MOTOR CO LTD)<br>28 June 2000 (2000-06-28)<br>* paragraphs '0015!-'0018! *<br>* paragraph '0025! *<br>* paragraphs '0039!-'0045! *<br>* paragraph '0107! - paragraph '0110! *<br>* figures 1,11 *<br>--- | 1-10   | F01N3/08<br>B01D53/94                                    |
| X  | US 5 787 706 A (JOBSON EDWARD ET AL)<br>4 August 1998 (1998-08-04)<br>* column 2, line 66 - column 4, line 19 *<br>---  | 6-8  |  |
| A  | EP 0 891 806 A (VOLKSWAGENWERK AG)<br>20 January 1999 (1999-01-20)<br>* abstract *<br>---   | 6-9  |  |
| A  | US 5 345 762 A (LUETZE ROLAND)<br>13 September 1994 (1994-09-13)<br>* abstract; figures 1,5 *<br>-----  | 5  |  |
| The present search report has been drawn up for all claims   |   |  | TECHNICAL FIELDS SEARCHED (Int.Cl.7)<br><br>F01N<br>B01D |
| Place of search<br><b>MUNICH</b>   |   | Date of completion of the search<br><b>30 October 2003</b> | Examiner<br><b>Tatus, W</b>                              |
| CATEGORY OF CITED DOCUMENTS  |   |  |  |
| X : particularly relevant if taken alone<br>Y : particularly relevant if combined with another document of the same category<br>A : technological background<br>O : non-written disclosure<br>P : intermediate document<br><br>T : theory or principle underlying the invention<br>E : earlier patent document, but published on, or after the filing date<br>D : document cited in the application<br>L : document cited for other reasons<br>-----<br>& : member of the same patent family, corresponding document |   |  |  |

6

EPO FORM 1503 03 82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 03 25 5499

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

30-10-2003

| Patent document<br>cited in search report |   | Publication<br>date |    | Patent family<br>member(s) | Publication<br>date |
|---|---|---------------------|----|----------------------------|---------------------|
| EP 1013902                                | A | 28-06-2000          | JP | 2000186543 A               | 04-07-2000          |
|   |   |                     | EP | 1013902 A2                 | 28-06-2000          |
|   |   |                     | US | 6397586 B1                 | 04-06-2002          |
| US 5787706                                | A | 04-08-1998          | WO | 9518292 A1                 | 06-07-1995          |
| EP 0891806                                | A | 20-01-1999          | DE | 19731131 A1                | 21-01-1999          |
|   |   |                     | DE | 59807160 D1                | 20-03-2003          |
|   |   |                     | EP | 0891806 A2                 | 20-01-1999          |
|   |   |                     | EP | 0892158 A2                 | 20-01-1999          |
|   |   |                     | US | 6164064 A                  | 26-12-2000          |
| US 5345762                                | A | 13-09-1994          | DE | 4212251 C1                 | 18-03-1993          |
|   |   |                     | FR | 2689933 A1                 | 15-10-1993          |
|   |   |                     | GB | 2265843 A , B              | 13-10-1993          |